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YZ Sun, PYS Cheung, XL Lin - IEEE Transactions on Parallel and Distributed Systems, 2001 - hub.hku.hk  
... free efficient barrier operations on wormhole networks in [8]. A multideestination  
**worm** is a message that carries **multiple destination addresses** so that it can ...

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S Oral, A George - Local Computer Networks, 2002. Proceedings. LCN 2002. 27th ..., 2002 - ieeexplore.ieee.org  
... same time. A **worm** that contains **multiple destination addresses** in its header  
is the basis for path-based communication. When a destination ...

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LM Ni - Proceedings of the 1995 International Conference on Parallel ..., 1995 - books.google.com  
... 4.3 Asynchronous Multi-head **Worm** In asynchronous multi-head **worm**, each branch ... Headers  
A multicast message has to carry the **multiple- destination** information in ...

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A George, S Oral - 2002 - Storming Media  
... same time. A **worm** that contains **multiple destination addresses** in its header  
is the basis for path-based communication. When a destination ...

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**[CITATION]** LAYERED MULTI-USER CRYPTOSYSTEMS by

ME Spencer, SE Tavares - Canadian Communications & Energy Conference:[papers]=: ..., 1982 - Institute of  
Electrical and Electronics Engineers

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Performance evaluation of cache depot on CC-NUMA multiprocessors- ► [psu.edu](#) [pdf]

HC Hsiao, CT King - Parallel and Distributed Systems, 1998. Proceedings., 1998 ..., 1998 - ieeexplore.ieee.org  
... A multi-hop **worm** is similar to a multideestination **worm** for multicasting in that  
both carry **multiple destination** ad- dresses in their header and they are routed ...

Cited by 1 - Related articles - Web Search - All 12 versions

Designing tree-based barrier synchronization on 2d mesh networks

CT Jenq-Shyan - 1998 - doi.ieeecomputersociety.org  
... A multideestination **worm** is a message which carries **multiple destination addresses**  
so that it can be sent to multiple nodes with a single startup delay. ...

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Efficient barrier synchronization in wormhole-routed mesh networks supporting turn model

KP Fan, CT King - Parallel Computing, 1998 - Elsevier  
... The basic concept of multideestination messaging is to carry **multiple destination**  
**addresses** in a ... In step 1, a gather **worm** is initiated by the rightmost member ...

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[\[PDF\]](#) ► Real-Time Detection of Hidden Traffic Patterns

FHMKTV Lakshman - International Conference on Network Protocols: Proceedings, 1993 - ieee-icnp.org  
... may not reveal a possible on-going DoS **attack** since such **attack** may consist ... An example  
is a router processing arrivals for **multiple destination** IP-addresses. ...

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Turn grouping for efficient barrier synchronization in wormholemesh networks- ► [nthu.edu.tw](#)

[\[PDF\]](#)  
KP Fan, CT Kin - Parallel Processing, 1997., Proceedings of the 1997 ..., 1997 - ieeexplore.ieee.org  
... concept of multideestination messaging is to carry **multiple destination addresses**  
in a ... types of syn- chronization messages, reduction **worm**, distribution **worm** ...

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[\[PDF\]](#) ► A dynamic mix method for wireless ad hoc networks

S Jiang, NH Vaidya, W Zhao - MILCOM, 2001 - cs.tamu.edu  
... seed material carried by Mix Request is designed to fight against replay **attack**. ...  
Recall that **multiple Destination** Queries may be triggered by same Mix Request ...

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MICA: a memory and interconnect simulation environment for cache-based architectures- ► [nthu.edu.tw](#) [\[PDF\]](#)

HC Hsiao, CT King - Simulation Symposium, 2000.(SS 2000) Proceedings, 33rd ..., 2000 - ieeexplore.ieee.org  
... The replica- tion is based on the **multiple destination addresses** carried in the  
message header. ... A communication thread de- notes a message **worm**. ...

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Method and system for sending data between computers using a secure pipeline

TJ Schwab, HD Steinberg, EL Franklin - US Patent App. 09/790,647, 2001 - Google Patents  
... world. Such a physical "air gap" between the sensitive data and the outside  
world completely prevents computer **attack** or invasion. ...

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Exploiting Network Locality for CC-NUMA Multiprocessors- ► [140.116.245.208](#) [\[PDF\]](#)

HC Hsiao, CT King - The Journal of Supercomputing, 2001 - Springer  
... the **multiple destination addresses** carried in the message header. With this hardware  
capability, the sender only has to send one multideestination **worm** to reach ...

Cited by 2 - Related articles - Web Search - BL Direct - All 10 versions

The group security association for secure multicasting

W Park, J Nah, S Sohn, D Kim - Ninth IEEE International Conference on Networks, 2001. ..., 2001 - ieeexplore.ieee.org

... For multicast traffic, there are **multiple destination** systems per multicast group. ...  
exchange mechanisms, protection against the denial-of-service **attack** uses a ...

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SOS: Secure overlay services- ► [ufl.edu](#) [\[PDF\]](#)

AD Keromytis, V Misra, D Rubenstein - Proceedings of the 2002 conference on Applications, ..., 2002 - portal.acm.org  
... a breach in communication that is the re- sult of an **attack** that shuts ... **Multiple**  
**destination** nodes for a given identifier can be created by using different hash ...

Cited by 367 - Related articles - Web Search - BL Direct - All 56 versions

[\[PDF\]](#) ► **Bro: A system for detecting network intruders in real-time**

V Paxson - Comput. Networks, 1999 - cs.jhu.edu

... that do what Bro does, generally with much more sophisticated interfaces and management soft- ware [In99, To99, Ci99], & and larger "**attack**" li ...

[Cited by 1063](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 111 versions](#)

**Russell JF Fang COMSAT Laboratories, Clarksburg, MD, 20734 USA**

AOFC TO - New Concepts in Multi-User Communication, 1981 - books.google.com

... and this system appears to be secure against known plaintext **attack**. ... Hi DECONCATENATOR

Figure 6. Simplified block diagram of a **multiple-destination** cryptosystem ...

[Related articles](#) - [Web Search](#)

**Optimal congestion control in single destination networks**

G Stassinopoulos, P Konstantopoulos - Communications, IEEE Transactions on [legacy, pre-1986], 1985 -

ieeexplore.ieee.org

... ever, that the geometrical properties of the state velocity set and its interpretations, given in the paper, are of considerable value for the **attack** of these ...

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**File archival**

RH Sathyaranayanan - US Patent App. 09/834,833, 2001 - Google Patents

... imple- mentation, there can be multiple source directories and **multiple destination** directories ... mentation process, or in a process that performs **virus** checks as ...

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**Smart allocation of bandwidth for multiple independent calls on a digital network**

NI Malik - US Patent 6,496,504, 2002 - Google Patents

Page 1. US006496504B1 (12) United States Patent Malik (io) Patent No.: US 6,496,504 B1 (45) Date of Patent: \*Dec. 17,2002 (54) SMART ...

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**Method and apparatus for providing user authentication using a back channel**

RJ Vanderveest, KT Simzer, ER Skinner - US Patent App. 09/855,183, 2001 - Google Patents

... However, some such systems can be vulnerable to **attack**. ... For example, a user may have **multiple destination** units such as a radiotelephone, pager, or multiple ...

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**Packaging of GaAs signal processors on multichip modules**

BK Gilbert, GW Pan, M Found, MN Rochester - IEEE Transactions on Components, Hybrids, and Manufacturing ..., 1992 - ieeexplore.ieee.org

... polyamic acid during the cure process, which in turn can **attack** the metal ... if transmission line TAB leads are provided, in a **multiple destination** signal net ...

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**Method and system for virtual addressing in a communications network**

MS Foster, MA Dorsett - US Patent App. 10/062,199, 2001 - Google Patents

Page 1. US 20020159452A1 (19) United States (12) Patent Application Publication (io> Pub. NO.: US 2002/0159452 A1 Foster et al. (43) Pub. Date: Oct. ...

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[\[PDF\]](#) ► **IP filter based firewalls howto**

B Conoboy, E Fichtner - IPFilter Project, Mar, 2000 - coffeeenix.net

... To do otherwise opens the internal network for a smurf **attack**. These two lines would prevent our hypothetical network from being used as a smurf relay: ...

[Cited by 8](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 65 versions](#)

[A bandwidth-efficient implementation of mesh with multiplebroadcasting- ► kaist.ac.kr \[PDF\]](#)  
JH Choi, BW Kim, KH Park, KI Park - Parallel Processing, 1999. Proceedings. 1999 International ..., 1999 - ieeexplore.ieee.org

... bus, those nodes on the mesh that are not neighbors can communicate directly and a source node can communicate with **multiple destination** nodes simultaneously ...

Cited by 4 - Related articles - Web Search - BL Direct - All 7 versions

[\[book\] Jxta: Java P2P Programming- ► parma.tu \[PDF\]](#)

D Brookshier, D Brookshier - 2002 - books.google.com

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[Variable threshold receiver](#)

TE Barclay, JA Zett - US Patent 4,516,248, 1985 - Google Patents

... by tracking the average of the peak signal levels of the received signal, eliminating the need for a lengthy preamble to compensate for receiver **attack** time. ...

Cited by 2 - Related articles - Web Search - All 2 versions

[\[book\] BGP: Building reliable networks with the border gateway protocol](#)

I Van Beijnum - 2002 - books.google.com

... or rather the ARPANET, which is regarded as the origin of today's Internet—was invented by the military as a network that could withstand a nuclear **attack** ...

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[Optimized broadcasting and multicasting protocols in cut-throughrouted networks- ► psu.edu](#)

[PDF]

J Cohen, P Fraigniaud, J Konig, A Raspaud - IEEE Transactions on Parallel and Distributed Systems, 1998 - ieeexplore.ieee.org

... In **worm**- hole routing, a message is decomposed in small units ... This hypothesis assumes that a message header can contain **multiple destination addresses** and the ...

Cited by 15 - Related articles - Web Search - BL Direct - All 11 versions

[\[PDF\] ► Congress: CONnection-oriented Group-address RESolution Service](#)

A Tal - 1998 - Citeseer

... ATM connections is the point-to-multipoint connection, which connects a single source end-system (known as the root node) to **multiple destination** end-systems ...

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[\[PDF\] ► Synthesis of Parallel Hardware Implementations from Synchronous Dataflow Graph Specifications by ...](#)

EA Lee - 1998 - ptolemy.eecs.berkeley.edu

Page 1. Synthesis of Parallel Hardware Implementations from Synchronous Dataflow Graph Specifications by Michael Cameron Williamson ...

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[System for translation and communication of messaging protocols into a common protocol](#)

JE Lewis, DT Lai, SJ Richardson, RMK Tam, J ... - US Patent App. 10/299,550, 2002 - Google Patents

Page 1. US 20030101283A1 (19) United States (12) Patent Application Publication

(io> Pub. NO.: US 2003/0101283 AI Lewis et al. (43) Pub. ...

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[Baseband Signal Processing](#)

E Saggese - Satellite Communication Systems Design, 1993 - books.google.com

Page 99. Baseband Signal Processing E. Saggese I. Introduction 3 This chapter

is devoted to operations performed on the baseband ...

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### Method and apparatus for expanding data rate in an ISDN communication system

NI Malik - US Patent 6,081,841, 2000 - Google Patents

Page 1. United States Patent Malik US006081841A [ii] Patent Number: [45]

Date of Patent: 6,081,841 Jun. 27, 2000 [54] METHOD AND ...

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### The LHAM log-structured history data access method- ► psu.edu (pdf)

P Muth, P O'Neil, A Pick, G Weikum - The VLDB Journal The International Journal on Very Large ... , 2000 - Springer

... The exception from this rule are components that may reside on archive media such as tapes or **WORM** units; these components are formed based on a redundant ...

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### Methods and systems for tracking and playing back errors in a communications network

J McNamara - US Patent App. 10/299,549, 2002 - Google Patents

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### System and method for providing message notification

JE Lewis - US Patent App. 10/299,551, 2002 - Google Patents

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### System and method for password protecting a distribution list

JE Lewis - US Patent App. 10/299,934, 2002 - Google Patents

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### OVERHEAD LIFTING CRANES, HOISTS, AND MONORAILS

L FEIT, JD MITCHELL - Materials Handling Handbook, 1985 - books.google.com

... It is therefore necessary to provide curves in the monorail system; and where **multiple destination** points are involved, it becomes necessary to provide the ...

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### Distributed internet multicast system for the stock market

NF Maxemchuk, DH Shur - US Patent App. 09/794,112, 2001 - Google Patents

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(io> Pub. NO.: US 2002/0120837 A1 Maxemchuk et al. (43) Pub. Date: Aug. ...

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### Communicating data through a network

MS Foster, MA Dorsett - US Patent App. 10/126,489, 2002 - Google Patents

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### [book] LAN technologies explained

P Miller, M Cummins - 2000 - books.google.com

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[PDF] ► Commercial electronic publishing over open networks: a global approach based on mobile objects ( ...

JH Marin - 1999 - cui.unige.ch

... of our work. However, we find it useful, to put our work into context and define our angle of **attack** on the domain. We have found ...

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Key authors: **L Ni - D Brookshier - A Keromytis - V Paxson - V Misra**

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### [SOS: Secure overlay services- ► \[utd.edu\]\(#\)](#)

AD Keromytis, V Misra, D Rubenstein - Proceedings of the 2002 conference on Applications, ..., 2002 - portal.acm.org

...  $\mu$  overlay hops. **Multiple destination** nodes for a given identifier can be created by using different hash functions. In addi- tion ...

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### A distributed intrusion detection system based on Bayesian alarm networks

D Bulatovic, D Velasevic - Lecture Notes in Computer Science, 1999 - Springer

... for example denial of service, virus, **worm** or privacy ... this context, every agent would try to **detect** anomalous intrusions in a **computer** system under ...

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### [PDF] ► A method to detect intrusive activity in a networked environment

LT Heberlein, KN Levitt, B Mukherjee - Proceedings of the 14th National Computer Security ..., 1991 - netsq.com

... **Worms**, and Viruses. ... 13th National **Computer** Security Conference, pp ... 7. LT Heberlein, "Towards **Detecting** Intrusions in a networked Environment,"\* Technical Report ...

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### An attack signature model to **computer** security intrusion detection

AM Cansian, ARA da Silva, M de Souza - MILCOM 2002. Proceedings, 2002 - ieeexplore.ieee.org

... bugs, used in the Internet **Worm** attack [3 ... unacceptable behavior and attempts to **detect** its occurrence ... of misuse behavior against **computer** network environments ...

Cited by 2 - Related articles - Web Search - BL Direct

### Using Relational Schemata in a **Computer** Immune System to Detect Multiple-Packet Network Intrusions

JL Bebo - 2002 - Storming Media

... 5.7.4 Fruit With **Worms** . . . . One area of research that holds much promise in **detecting** ... is the use of an Artificial Immune System (AIS) or **Computer** Immune System ...

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### Digging for **worms**, fishing for answers

F Buchholz, TE Daniels, JP Early, R Gopalakrishna, ... - Computer Security Applications Conference, 2002.

Proceedings ..., 2002 - ieeexplore.ieee.org

... Proceedings of the 18th Annual **Computer** Security Applications ... being put into stopping **worms** today focuses on ... intrusion detection systems can **detect** attempts to ...

Cited by 10 - Related articles - Web Search - All 2 versions

### [book] **Computer** intrusion detection and network monitoring: a statistical viewpoint- ► jhu.edu

[PDF]

DJ Marchette - 2001 - books.google.com

... **Computer** professionals with a knowledge of basic net ... the approaches to **detecting** these and other attacks ... The final section covers viruses, **worms**, and other types ...

Cited by 76 - Related articles - Web Search - Library Search - All 7 versions

### Method and apparatus for providing node security in a router of a **packet** network

VM Patel, JP Dorenbosch - US Patent App. 09/976,516, 2001 - Google Patents

... for example, a workstation, a personal **computer**, or a ... security program 214 uses to **detect** harmful data ... potential presence of known viruses, **worms**, Trojan horses ...

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### A network security monitor- ► ucdavis.edu [PDF]

LT Heberlein, GV Dias, KN Levitt, B Mukherjee, J ... - 1990 IEEE Computer Society Symposium on Research in Security ..., 1990 - ieeexplore.ieee.org

... a hostile program or a hu- man sitting at a **computer** ... a simple node going down to a network **worm**, can be ... be sure with a high probability of **detecting** an attack ...

Cited by 268 - Related articles - Web Search - All 16 versions

### [PDF] ► An Intrusion Detection Scheme Utilizing Teiresias to Determine a Computer's DNA Sequence ...

S Hu - 2002 - sfu.ca

... of such an attack was the use of the Notepad **Worm** that is ... False Positives Attacks **Detect** (out of 10) ... A port can be seen as a door into a **computer** system and ...

Cited by 1 - Related articles - View as HTML - Web Search - All 3 versions

### The architecture of a network level intrusion detection system

R Heady, G Luger, A Maccabe, M Servilla - 1990 - osti.gov

... Luger Arthur Maccabe Mark Servilla Department of **Computer** Science University ... the possibility of using this technology to **detect** and react to **worm** programs ...

Cited by 196 - Related articles - Web Search - Library Search

### Fuzzy network profiling for intrusion detection- ► psu.edu [PDF]

JE Dickerson, JA Dickerson - Fuzzy Information Processing Society, 2000. NAFIPS. 19th ..., 2000 - ieeexplore.ieee.org

... The tall, **worm**-like structures indicate regular network connections. ... in a rule set for **detecting** suspicious connections ... an NDC ran on the same **computer** as an ...

Cited by 123 - Related articles - Web Search - Library Search - All 14 versions

### Case study: Interactive visualization for internet security- ► psu.edu [PDF]

ST Tech, KL Ma, SF Wu, X Zhao - Proceedings of the conference on Visualization'02, 2002 - portal.acm.org

... The brown lines in Figure 6 show all the routes to IP prefix 55/8 within a minute during the Nimda **worm** attack in ... **Detecting** intruders in **computer** systems. ...

Cited by 45 - Related articles - Web Search - All 16 versions

### Detecting dissemination of malicious programs

CD Jeffries, CS Lingafelt, NC Strole - US Patent App. 10/120,705, 2002 - Google Patents

... 11, 2002 A method, system and **computer** program product ... By **detecting** random **destination** IP addresses, the ... of a malicious program, eg, virus, **worm** program, may ...

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### The SP1 high-performance switch- ► ibm.com [PDF]

CB Stunkel, DG Shea, DG Grice, PH Hochschild, M ... - Scalable High-Performance Computing Conference, 1994., ..., 1994 - ieeexplore.ieee.org

... The 0-0 and 1-1 en-codings are invalid to **detect** token errors. ... A **packet** contains no route flits when it reaches its **destination** ...

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### User-level network interface protocols- ► psu.edu [PDF]

RAF Bhoedjang, T Ruhl, HE Bal - Computer, 1998 - ieeexplore.ieee.org

... 56 **Computer** ... While simple, polling is not always the most efficient method to **detect** incoming packets ... the type of host CPU, the DMA engine, and the **packet** size. ...

Cited by 163 - Related articles - Web Search - Library Search - BL Direct - All 20 versions

### [PDF] ► Self-Securing Network Interfaces: What, Why and How?

... -MELLON UNIV PITTSBURGH PA SCHOOL OF COMPUTER ... - 2002 - ece.cmu.edu

... used to break into **computer** systems over ... Specifically, these **worms** spread exponentially

by having ... NIs offer exciting possibilities for **detecting** and containing ...

Cited by 28 - Related articles - View as HTML - Web Search - Library Search - All 18 versions

### Specialized hardware for deep network **packet** filtering

YH Cho, S Navab, WH Mangione-Smith - Lecture Notes in Computer Science, 2002 - Springer

... As **computer** networks grow faster, it becomes easier for the ... that is used by Snort to **detect** one type ... CERT Advisory CA-2001-19 Code Red **Worm** Exploiting Buffer ...

Cited by 98 - Related articles - Web Search - BL Direct - All 13 versions

### Hierarchical event monitoring and analysis

PA Porras, A Valdes - US Patent 6,484,203, 2002 - Google Patents

... an enterprise network, the net- work monitors **detecting** suspicious network ... 6 is a diagram of a **computer** platform suitable for ... eg, the spreading of a **worm** or a ...

Cited by 8 - Related articles - Web Search - All 2 versions

### System and method for the detection of and reaction to **computer** hacker denial of service attacks

RM Silverman - US Patent App. 09/945,172, 2001 - Google Patents

... relates to monitoring and analyzing a communications network for the purpose of **detecting** "hacker" attacks ... Although **computer** viruses, **worms**, and other so ...

Web Search - All 3 versions

### Security for the Internet Protocol

RJ Atkinson - 1995 - Storming Media

... to mean that the receiver can **detect** improper modification ... was the now infamous "Internet **Worm**" that exploited ... a manner friendly to modern **computer** processors. ...

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### Fast barrier synchronization in wormhole k-ary n-cube networks withmultidestination **worms**-

► psu.edu [pdf]

DK Panda - ... on High-Performance Computer Architecture, 1995. Proceedings ..., 1995 - ieeexplore.ieee.org ... of **Computer** and Information Science The Ohio State University ... state' or 'busy loop- ing' to **detect** this signal. ... a barrier z using gather and broadcasting **worms**. ...

Cited by 42 - Related articles - Web Search - All 22 versions

### Practical multicasting on a nonbroadcast subnetwork- ► ieee-icnp.org [pdf]

S Walton, M Gerla - Network Protocols, 1997. Proceedings., 1997 International ..., 1997 - ieeexplore.ieee.org

... Simon Walton and Mario Gerla **Computer** Science Dept., University ... output port is not available, the **worm** is blocked ... Also, the routing daemon will **detect** when the ...

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### Change detection algorithms for information assurance of **computer** networks

AA Cardenas - 2002 - Storming Media

... As our reliance on **computer** networks grows, the ... of active **worms** throught the Internet, distributed ... baseline for **detecting** abnormalities generated by intrusions ...

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### Accurate buffer overflow detection via abstract payload execution

T Toth, C Kruegel - Lecture notes in computer science, 2002 - Springer

... audience due to the Morris Internet **worm** [21] in ... based network sensors neglect the **packet** payload and ... These systems are capable of **detecting** buffer overflows ...

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A necessary and sufficient condition for deadlock-free routing in cut-through and store-and-

forward ...

J Duato - IEEE Transactions on Parallel and Distributed Systems, 1996 - ieeexplore.ieee.org  
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AJ Stewart - Phrack Magazine, 1999 - polinux.upv.es

... an attacker attempts to penetrate a remote **computer** network is ... increased, and  
consequently the probability of **detecting** anomalous (ie ... 7 Internet **Worm** Analogy ...

Cited by 12 - Related articles - Web Search - All 16 versions

[PDF] ► An immunological model of distributed detection and its application to **computer**  
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SA Hofmeyr, S Forrest - The University of New Mexico, 1999 - Citeseer

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J Haggerty, Q Shi, M Merabti - Computer Security Applications Conference, 2002. Proceedings . . . , 2002 - acsa-admin.org

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... University of Pennsylvania Department of **Computer** and Information Science ... can use  
this tool to **detect** service degradation ... The "Code Red **worm** and its variants ...

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Identification of host audit data to detect attacks on low-level IP vulnerabilities-

► kfupm.edu.sa (PDF)

TE Daniels, EH Spafford - Journal of Computer Security, 1999 - IOS Press

... to **detect** widely distributed attacks like **worms** and portscans ... gain unautho- rized  
access to **computer** systems by ... and present signatures to **detect** this activity. ...

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J Mirkovic, P Reiher, G Prier - Proceeding of USENIX Security Symposium, 2001 - lasr.cs.ucla.edu

... Peter Reiher and Gregory Prier **Computer** Science Department ... and existing security  
mechanisms cannot **detect** or stop ... The Code Red [13] **worm** is self-propagating ...

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S Kumar, EH Spafford - In Proceedings of the 18th National Information Security . . . , 1995 - eprints.kfupm.edu.sa

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... Laboratory EPFL, Lausanne, Switzerland **Frederic.Worm@epfl.ch** ... Giovanni De Micheli  
**Computer** Systems Laboratory Stanford University ... 32-bit word) to **detect** errors. ...

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J Costa-Resuena - Seminar on Network Security, 2001 - tml.tkk.fi

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... that 50% of all attacks have a **packet** rate greater ... abstract properties: the time to **detect** and react ... While **computer worms** represent a relatively new threat, the ...

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**Integrated security gateway apparatus**

KT Kim - US Patent App. 09/784,719, 2001 - Google Patents

... **computer** viruses, Trojan horses and/or **worms** into the ... That is, the IDS 380 cannot **detect** an intrusion ... is illustrated as including a server **computer** 411 and ...

Web Search - All 2 versions

**Method and system for protecting publicly accessible network computer services from undesirable ...**

GR Malan, F Jahanian - US Patent App. 09/855,818, 2001 - Google Patents

... Unlike a virus or **worm**, which can cause severe ... to protect publicly accessible network **computer** services such as ... in the request can be used to **detect** some types ...

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RP Jones - US Patent 5,144,659, 1992 - Google Patents

... BY DRIVER FOR MAJOR & MINOR NUMBER PLUS INFO IN DATA PACKET. ... an application does not require within the **computer** profession as "worms", "Trojan 45 ...

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WA Aiello, FT Leighton, BM Maggs, M Newman - Theory of Computing Systems, 1991 - Springer  
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the tail, allowing the entire **worm** to move. ... At the head of each **packet** is a  $2^n$  ...

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Computer security using virus probing

E Grosse - US Patent 6,205,551, 2001 - Google Patents

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detect a security ... of various security advantages to **computer** net- works as ...

[Cited by 8](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

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[securitytechnet.com](http://securitytechnet.com)

... the transmissions very difficult to decipher and **detect**. ... Agents such as the Morris  
**Worm** illustrated highly ... real-time remote control of the **computer** that rivals ...

[Cited by 5](#) - [Related articles](#) - [Web Search](#) - [All 8 versions](#)

Method and system for profiling network flows at a measurement point within a **computer**  
network

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[book] Halting the hacker: a practical guide to **computer** security

DL Pipkin - 2002 - [books.google.com](http://books.google.com)

... many years of hands-on experience in the field of **computer** security allows ... information  
systems, from access control and authentication to **detecting** break-ins ...

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A model for mobile code using interacting automata- ► ccert.edu.cn (PDF)

RR Brooks, N Orr - IEEE Transactions on Mobile Computing, 2002 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... network attacks such as viruses, **worms**, and Distributed ... distributed agreement protocols  
can **detect** and isolate ... client/server paradigm, one **computer** node has a ...

[Cited by 7](#) - [Related articles](#) - [Web Search](#) - [SL Direct](#) - [All 8 versions](#)

... for reconstructing a path taken by undesirable network traffic through a **computer** network  
from a ...

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network **computer** services such ... The HNP can easily **detect** these types of ...

[Web Search](#) - [All 5 versions](#)

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**Worms**

DK Panda, R Sivaram - 1995 - Citeseer

... of **Computer** and Information Science The Ohio State University ... When the **worms** reach  
rst stage switches, a copy of the **packet** is forwarded to every processor ...

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Throttling viruses: Restricting propagation to defeat malicious mobile code- ► future.co.kr

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MM Williamson - Computer Security Applications Conference, 2002. Proceedings ..., 2002 - ieeexplore.ieee.org  
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Applications ... to propagate vigorously, the filter can **detect** this very ...

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J Roberts, S Fouche, J Purtill - 2002 - cs.umd.edu

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network **worms**. ... framework for identifying hazardous **computer** transactions by ...

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AC Doring, W Obelcer, G Lustig, E Machle - Sci: Scalable Coherent Interface: Architecture and Software ..., 1999  
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... University of Lubeck Institute of **Computer** Engineering Ratzeburger ... tech- nique, eg  
**packet** or **worm**-hole switching ... In order to **detect** transmission errors, the ...

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B Yu, E Byres, C Howey - ... Conference, Instrumentation Systems and Automation Society, ..., 2001 - bcit.ca

... in the form of virus, DOS, DDOS, **worms**, mail bombers ... preliminary list of categories  
of a **computer** system which ... nets in the section titled **Detecting** DNA Mutation ...

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**worm**-holeroutingsystems3]thatallowprocessors ... The **packet**|the combination of the header ...

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DA Adams, SR Pappa - Information Security Journal: A Global Perspective, 1995 - informaworld.com

... The **worm** also included ... fixed this Centralized, host-based systems are inher- problem  
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F Zisowski - US Patent App. 10/175,343, 2002 - Google Patents

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... Multiple NIs can **detect** (and recover from) a deadlock simultaneously. ... it has run  
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uncommon port number is being connected ... an NDC ran on the same **computer** as an ...  
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with **worm-** hole switching ... degree of flexibility and also **detect** errors in ...  
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source and **destination** ... 6.1 Latency of a single **packet** under the model ...  
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reservation **packet** that precede ... Computer Communications 22 (1999) 919–929 922 ...

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C Dichter - US Patent 5,896,443, 1999 - Google Patents

... box 105 is used to 1Q **worM** protocol ... which is capable of being understood by a **computer**  
or other ... one of a bandsplitting and an echo **detecting** collisions between ...

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RC Crane, EA Taft - System, 1980 - ethermethistory.typepad.com

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The simulation of a fault tolerant computer system

JS Griffin, JC Comfort - Proceedings of the 18th annual symposium on Simulation, 1985 - portal.acm.org

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Decentralized event correlation for intrusion detection

C Krugel, T Toth, C Kerer - Lecture Notes in Computer Science, 2002 - Springer

... This includes **worms** spreading in a network as well as ... Quicksand can be used to describe  
and **detect** situations where ... to a host, the reception of a **packet** from a ...

Cited by 59 - Related articles - Web Search - BL Direct - All 7 versions

System and method for network intrusion prevention

TF Liston - US Patent App. 10/308,980, 2002 - Google Patents

... Recent global attacks by **worms** such as Nimda and ... execute and the firewall does not  
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A prototype implementation of a network-level intrusion detection system. Technical report number ...

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MD Abrams, HJ Podell - ... collection of essays. IEEE Computer Society Press, Los ... , 1995 - acsac.org

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G Buzzard, T Mudge - ... computers and applications: Architecture, software, computer ..., 1988 - portal.acm.org  
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### ► Internet Users' Glossary

G Malkin, TLQ Parker - 1993 - isi.edu  
... **Computer** Emergency Response Team, Trojan Horse, virus, **worm**. ... the receiving node can  
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### Computer connections

RE Dassy - Laboratory Automation and Information Management, 1996 - Elsevier  
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**computer** communications, as ... CRC approach which can both **detect** errors and ...

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P Ning, S Jajodia, XS Wang - ACM Transactions on Information and System Security (TISSEC), 2001 -  
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... University of California Los Angeles **Computer** Science Department ... at flow granularity  
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B Cheswick - in Proc. Summer USENIX Conference, 1990 - eprints.kfupm.edu.sa  
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### System and method for malicious code detection

RS Hoefelmeyer, TE Phillips - US Patent App. 09/862,851, 2001 - Google Patents  
... code, such as a Trojan horse, **worm**, etc. ... by at least one of the scanning **computer**  
systems. ... according to claim 10, further comprising **detecting** malicious code ...

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C Izu, R Belvide, C Jesshope - Parallel and Distributed Processing, 1994. Proceedings. ..., 1994 -  
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... node the **packet** is immediately forwarded on the lead- ing ... when there is a blockage  
MW - **Mad-worm**: a mad ... A link control mechanism is needed to **detect** the start ...

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P Dokas, L Ertoz, V Kumar, A Lazarevic, J ... - Proc. NSF Workshop on Next Generation Data Mining, 2002 -  
csee.umbc.edu

... a recent survey [1] by CERT/CC (**Computer** Emergency Response ... 60s time interval was  
allowed to **detect** the bursty ... utility software [25] as the **packet** fil- tering ...

[Cited by 62 - Related articles - View as HTML - Web Search - All 7 versions](#)

[\[PDF\] ► A structured approach to \*\*computer\*\* security](#)

T Olovsson - Chalmers University of Technology, Gothenburg, 1992 - Citeseer

... software are important channels for the spreading of viruses and **worms**. ... accesses  
and audit trails can be used to **detect** unusual system ... **Computer** Communication ...

[Cited by 21 - Related articles - View as HTML - Web Search - Library Search - All 17 versions](#)

[Method for deadlock free and and reliable routing in a \*\*packet\*\* switched network](#)

B Abali, KJ Reilly, CB Stunkel - US Patent 6,031,835, 2000 - Google Patents

... all the central queues be monitored to **detect** a potential ... are com- monly used in  
parallel **computer** systems to ... to span several switches in a **worm-hole** fashion ...

[Cited by 3 - Related articles - Web Search - All 2 versions](#)

[\[PDF\] ► Design of scalable and multicast capable cut-through switches for high-speed LANs](#)

M Yang, LM Ni - Proceedings of the international Conference on Parallel ... , 1997 - Citeseer

... Department of **Computer** Science Michigan State University East Lansing ... A **packet** uses  
Y channels only when X dimension ... is possible for hardware to **detect** an open ...

[Cited by 11 - Related articles - View as HTML - Web Search - SciDirect - All 7 versions](#)

[Backdoors and Trojan Horses By the Internet Security Systems' X-Force](#)

NT Windows - Information Security Technical Report, 2001 - Elsevier

... the user and the name of the **computer**, and get ... Note: When **detecting** the Doly Trojan  
Horse using a network ... Trojan v1.5 — Connected.' in a TCP **packet** with a ...

[Web Search](#)

Key authors: [L Heberlein - J Dickerson - K Levitt - B Mukherjee - R Bhoedjang](#)

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computer worm single source multiple destinations threshold

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Results 1 - 100 of about 3,760 for computer worm single source multiple destinations threshold. (0.65 sec)

### [A Worm Filter Based on the Number of Unacknowledged Requests](#)

We propose a new filter for preventing **computer worms** from ... **destination** addresses, the **destination** port, and the protocol number of an out- ... equal to the **threshold**, the **worm** filter checks the value of the least recently used .... **multiple** operating systems to run concurrently on a **single physical computer** ...

[www.springerlink.com/index/40x5821;91e0b92k.pdf](#) - Similar  
by T Okamoto - 2005 - Cited by 1 - Related articles

### [LNAI 3930 - Fast Detection of Worm Infection for Large-Scale Networks](#)

**threshold** selection, similarity detection algorithm and fine analysis. ... monitoring the number of ICMP **destination** unreachable packets generated by routers .... packets are certain, such as 80, 25 and 21 etc. but the **source** ports of the request ... can find that no **single** similarity can detect a **worm's** attack ...

[www.springerlink.com/index/y503n28tj8036401.pdf](#) - Similar  
by H He - 2006 - Related articles  
More results from [www.springerlink.com](#) »

### [Efficient Content-Based Detection of Zero-Day Worms](#)

directed to **multiple destination** hosts. We evaluate our method .... substrings will only be sent to a **single destination** before they .... a fixed cache size of 500 msec, distinct **destination threshold** of 10, sampling .... scanning **worms**, the first external **source** may probe and infect an entire network, ...

[ieeexplore.ieee.org/iel5/9996/32110/01494469.pdf?arnumber=1494469](#) - Similar  
by P Akrithidis - 2005 - Cited by 24 - Related articles

### [WormShield: Fast Worm Signature Generation with Distributed ...](#)

**Single** substring. Disjoint string tokens. **Multiple** substrings. **Single** .... dispersion, where t is a **threshold** for both **source** and **destination** addresses. Fig. .... ACM Conference on **Computer** and Communications Security, 2003, pp. ...

[ieeexplore.ieee.org/iel5/8858/28003/101109TDSC20071000.pdf](#) - Similar  
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### [\[PDF\] Characterization of Network-Wide Anomalies in Traffic Flows](#)

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along with the corresponding **threshold** line. Finally, in the bottom .... high-rate flows from a **single source** to a **single destination** which ... **Multiple** instances where a large number of packets are sent to a **single** destina- .... Taxonomy of **Computer Worms**. In ACM CCS Workshop on Rapid. Malcode (**WORM**), October 2003 ...

[cs-people.bu.edu/anukool/pubs/anomalychar-imc04.pdf](#) - Similar  
by A Lakhina - 2004 - Cited by 104 - Related articles

### [Methods and apparatus for many-to-one connection-rate monitoring ...](#)

If the pre-set **threshold** rate is exceeded by the measured traffic rate, ... This reduces damage because the **worm** or virus is able to spread less .... for example, by programming new **source/destination** traffic streams into a route ... The switching or routing apparatus 102 may be configured with **multiple** ports 202. ...

[www.faqs.org/patents/app/20090016221](#) - Cached - Similar

### [Method and system for counting new destination addresses - Patent](#)

Packets of a certain type from a certain **source** are directed to a system that .... Even though the impact of a **single worm** on any given piece of network ... by the fact that the current solutions are based on **multiple** components, ....  $T_i$  and the expected number of new **destinations** is greater than a **threshold** ....

[www.faqs.org/patents/app/20080301812](http://www.faqs.org/patents/app/20080301812) - Cached - Similar

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### [PDF] Simulating Realistic Network Worm Traffic for Worm Warning System ...

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... dresses that are not associated with a reachable **computer**. In many cases, routers that receive a packet ... the total number of packets for any **source** or **destination** machine or port exceeds a **threshold**  $N$ . DIBS within a config- urable time interval  $\Delta t$  ... to a **single source** machine, **multiple source** machines, and ...

[www.ssfnet.org/Papers/p022-liljenstam.pdf](http://www.ssfnet.org/Papers/p022-liljenstam.pdf) - Similar

by M Liljenstam - 2003 - Cited by 95 - Related articles - All 20 versions

### [PDF] INTERNATIONAL COMPUTER SCIENCE INSTITUTE GQ: Realizing a System to ...

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phenomenon of a **single** remote **source** engaging in heavy scanning of the telescope's address .... **source**. By matching the **source's** messages against **multiple** scripts, .... probed the honeypot AND the request is below a configurable **threshold** ..... Finally, we present the **worms** GQ captured over the course of a month of ...

[research.microsoft.com/en-us/um/people/wdcui/papers/gq-techreport.pdf](http://research.microsoft.com/en-us/um/people/wdcui/papers/gq-techreport.pdf) - Similar

by W Cui - Related articles - All 10 versions

### Collaborative Internet Worm Containment

cooperation among **multiple** sites, enabled by trust integration and alert-correlation methodologies;6 ... It also remembers the set of **source** addresses  $S(i,j)$  and **destination** ... Once  $L(i,j)$  is greater than a local prevalence **threshold**  $T_l$  and the .... scalable wire-speed implementation in a **single worm** sensor. ...

[doi.ieeecomputersociety.org/10.1109/MSP.2005.63](http://doi.ieeecomputersociety.org/10.1109/MSP.2005.63) - Similar

by M Cai - 2005 - Cited by 32 - Related articles - All 10 versions

### Computer Networks : SweetBait: Zero-hour worm detection and ...

Oct 13, 2006 ... As next-generation **computer worms** may spread within minutes to millions of .... SweetBait is comprised of **multiple** components with distinct roles, .... as well as the **source** and **destination** IP addresses involved in the data exchange. ... When a signature's activity exceeds a configurable **threshold**, ...

[linkinghub.elsevier.com/retrieve/pii/S138912860600243X](http://linkinghub.elsevier.com/retrieve/pii/S138912860600243X) - Similar

by G Portokalidis - 2007 - Cited by 6 - Related articles - All 5 versions

### Fast detection and visualization of network attacks on parallel ...

aDivision of **Computer** and Communication Engineering, Korea University, ... A flow is a **single** network connection and can consist of millions of packets. .... So there are **multiple source** and **destination** hosts, where a particular .... The **threshold** for determining DDoS or **worm** attacks is 50 (flows per second). ...

[linkinghub.elsevier.com/retrieve/pii/S0167404808001363](http://linkinghub.elsevier.com/retrieve/pii/S0167404808001363) - Similar

by H Choi - 2008

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### [PPT] 15-744: Computer Networking

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How to compute prevalence( $w$ ), sources( $w$ ) and **destinations**( $w$ ) efficiently? ... **multiple** bitmaps each mapped to progressively smaller and smaller portions of the hash space. bitmap recycled if ... counters > dispersion **threshold**? report key as suspicious **worm** ...

**Single** sensor algorithmics + centralized aggregators ...

[www.cs.cmu.edu/~srini/15-744/S08/lectures/23-worms.ppt](http://www.cs.cmu.edu/~srini/15-744/S08/lectures/23-worms.ppt) - Similar

A Multi-Resolution Approach for Worm Detection and Containment unions of the set of **destinations** contacted over **multiple** time bins. .... and add the

**destination** to the contact set of the **source**. ... a **single-resolution threshold**-based scheme, to detect **worms** with rate greater than  $r$  scans per second using ..... nal of **Computer Security**, 10:105–136, 2002. ....  
[www.cs.cmu.edu/~yixie/papers/dsn06.pdf](http://www.cs.cmu.edu/~yixie/papers/dsn06.pdf) - Similar  
by V Sekar - Cited by 10 - Related articles - All 13 versions  
More results from [www.cs.cmu.edu](http://www.cs.cmu.edu) »

### Very Fast Containment of Scanning Worms

May 17, 2004 ... **Computer worms** -- malicious, self propagating programs ... Without containment, even a **single** breach can lead to a complete internal infection. .... This measures the number of new **destinations** a host can visit in a given period ..... Then when a **source** IP crosses the **threshold** for scan detection, ...  
[www.icsi.berkeley.edu/~nweaver/containment/](http://www.icsi.berkeley.edu/~nweaver/containment/) - Cached - Similar

#### [PDF] Very Fast Containment of Scanning Worms

File Format: PDF/Adobe Acrobat - [View as HTML](#)  
for cooperation that enable **multiple** containment devices ... **Computer worms** — malicious, self propagating programs ... each cell (which might encompass just a **single** machine), ..... a **source** IP crosses the **threshold** for scan detection, the ... **worm's** overlay network, informing the **destination worm** ...  
[www.icsi.berkeley.edu/~nweaver/containment/containment.pdf](http://www.icsi.berkeley.edu/~nweaver/containment/containment.pdf) - Similar  
by N Weaver - Cited by 197 - Related articles - All 18 versions

### [PPT] An active queue management scheme to contain high bandwidth flows

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Similar to how caches are employed in **computer** memory systems ... Drop rate keeps increasing if flow stays above **threshold**; Tends to punish nonresponsive flows, high-BW flows .... Infected machine contacting **multiple destinations** (**worm** propagation); **Multiple source** machines targeting a **destination** (DDOS) ...  
[www.ece.tamu.edu/~reddy/presentations/security\\_06.ppt](http://www.ece.tamu.edu/~reddy/presentations/security_06.ppt) - Similar

#### [PPT] Real-time Traffic monitoring and containment

File Format: Microsoft Powerpoint - [View as HTML](#)  
Similar to how caches are employed in **computer** memory systems. Exploit locality ... All parameters: **threshold**, probability and cache size are passed as parameters to the filter .... Infected machine contacting **multiple destinations** (**worm** propagation); **Multiple source** machines targeting a **destination** (DDOS) ...  
[www.ece.tamu.edu/~reddy/presentations/birmingham.ppt](http://www.ece.tamu.edu/~reddy/presentations/birmingham.ppt) - Similar  
More results from [www.ece.tamu.edu](http://www.ece.tamu.edu) »

### [PDF] Automated Worm Fingerprinting

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**worms** typically spread by a **single** mechanism and did ..... between **multiple** sensors. By contrast, Earlybird has ..... If the **source** and **destination** counts exceed the dispersion **threshold**, then the content string is reported. ..... works. to appear in the **Journal of Computer Security**, 2004. ....  
[www-cse.ucsd.edu/~savage/papers/OSDI04.pdf](http://www-cse.ucsd.edu/~savage/papers/OSDI04.pdf) - Similar  
by S Singh - Cited by 336 - Related articles - All 60 versions

### [PDF] Collaborative Internet Worm Containment

File Format: PDF/Adobe Acrobat - [View as HTML](#)  
May 6, 2005 ... Cooperation among **multiple** sites, enabled by trust in- ..... (b) The effects of the global prevalence **threshold** show that collaborative monitors can detect sig- .... **source** IP addresses and port numbers, **destination** IP ad- .... robust, scalable wire-speed implementation in a **single worm** sensor. ....  
[gridsec.usc.edu/files/TR/j3hwaSecurity&PMay11Galley.pdf](http://gridsec.usc.edu/files/TR/j3hwaSecurity&PMay11Galley.pdf) - Similar  
by M Cai - 2005 - Cited by 32 - Related articles

### [PDF] Fast Detection of Scanning Worm Infections

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This earlier work used a **single** sequential hypothesis test per host and did ..... a temporary outage at a **destination** network at which **multiple** remote hosts .... that a local host initiates to a given **destination** port to a **threshold**, .... taxonomy of **computer worms**. In Proceedings of the 2003 ACM Workshop on ...  
[www.eecs.harvard.edu/~stuart/papers/scanworm.pdf](http://www.eecs.harvard.edu/~stuart/papers/scanworm.pdf) - Similar by SE Schechter - 2004 - Cited by 102 - Related articles

[PDF] Analysis of the “SQL Slammer” **worm** and its effects on Indiana ...  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
choice of **source** and **destination** IP addresses. In the case of the **source** ... **multiple** hosts, each using a different seed, the effect on the internet .... Ingress of the **worm** required that only a **single** one of those points ... reusable when the total number of multicast (S,G) entries fall below the reuse **threshold**. ...  
[paintsquirrel.ucs.indiana.edu/pdf/SLAMMER.pdf](http://paintsquirrel.ucs.indiana.edu/pdf/SLAMMER.pdf) - Similar by G Travis - Cited by 2 - Related articles - All 6 versions

[ps] Digging For Worms, Fishing For Answers  
File Format: Adobe PostScript - [View as HTML](#)  
dress accessing 10 different ports on the same **destination** ... to scan **multiple** ports, or **multiple** hosts. .... for the number of connections to cross a particular **threshold**. [12], where a connection consists of a **single source** address ..... ACM Conference on Computer and Communications Secu- ...  
<https://users.cs.jmu.edu/buchhofp/publications/digging.ps> - Similar

[PDF] The EarlyBird System for Real-time Detection of Unknown Worms  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
for a popular piece of content with a **single** counter, we believe .... distinct **source-destination** pairs for the signature under consid- eration. The parameter .... lection of the various **threshold** levels as well as the length of the .... warning for internet **worms**,” Department of Computer Science, Univ. of ...  
[www.cs.unc.edu/~jeffay/courses/nidsS05/signatures/savage-earlybird03.pdf](http://www.cs.unc.edu/~jeffay/courses/nidsS05/signatures/savage-earlybird03.pdf) - Similar by S Singh - 2003 - Cited by 99 - Related articles

[PDF] Worm Detection  
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**destinations**, and distinct **source-destination** ... with frequency greater than a **threshold**.,. occurrenceRate. 8. Alerts. As each packet generates **multiple** signatures, ... **Single** packet application identifier strings, eg. “SSH- .... Department of Computer Science, Technical Report CS2003- 0761, August 2003. ...  
[www.cs.unc.edu/~jeffay/courses/nidsS05/slides/13-Worm-Detection.pdf](http://www.cs.unc.edu/~jeffay/courses/nidsS05/slides/13-Worm-Detection.pdf) - Similar by R Fingerprints - Related articles  
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[PDF] Analysis of the “SQL Slammer” **worm** and its effects on Indiana ...  
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inefficient, however a Slammer infected **computer** would try as many as .... choice of **source** and **destination** IP addresses. In the case of the **source** .... Ingress of the **worm** required that only a **single** one of those points ... reusable when the total number of multicast (S,G) entries fall below the reuse **threshold**. ...  
[www.anml.iu.edu/downloads/SLAMMER.pdf](http://www.anml.iu.edu/downloads/SLAMMER.pdf) - Similar by G Travis - Cited by 2 - Related articles - All 6 versions

[doc] Survey on Polymorphic Worms  
File Format: Microsoft Word - [View as HTML](#)  
Department of Computer Science, Lamar University .... Unlike Autograph that is based on matching a **single** substring, **multiple** substrings are used .... If the count of **source destination** IP pair exceeds some **threshold** value and number of ...  
[puspamahat.com/Documents/Survey%20on%20Polymorphic%20Worms.doc](http://puspamahat.com/Documents/Survey%20on%20Polymorphic%20Worms.doc) - Similar

[PDF] Computer and Network Security

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Counting every **source** and **destination** is expensive. ... So, do **multiple** different hashes (say 3) -- **worm** content is flagged only if counts along all hashes exceed a **threshold** ....

**Single** UDP packet exploits flaw in the passive ...

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### [\[PDF\]](#) Computer and Network Security

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Counting every **source** and **destination** is expensive. ... So, do **multiple** different hashes (say 3) -- **worm** content is flagged only if counts along all hashes exceed a **threshold**. •

Include the **destination** port in the hash of the packet content .... **Single** UDP packet exploits flaw in the passive ...

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### [\[PDF\]](#) Detecting Internet Worms at Early Stage

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Department of **Computer** & Information Science & Engineering ..... RESET packets to an external host exceeds a **threshold** value within a period of time, it reports th ... connections to random **destination** addresses from a **single** forged **source** address. ..... An attack session may consist of **multiple** inbound packets. ...

[www.cise.ufl.edu/~sgchen/papers/JSAC2005.pdf](http://www.cise.ufl.edu/~sgchen/papers/JSAC2005.pdf) - [Similar](#)

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### [\[PDF\]](#) Slowing Down Internet Worms

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always increase as **computer** systems become more and more ... edge routers, which are under a **single** administrative con- ... 0, the probability of **multiple** scan messages hitting the .... a pre-configured **threshold**, the agent randomly drops a min- ..... any **source** address in S to any **destination** port in P during ...

[www.cise.ufl.edu/~sgchen/papers/iccdcs2004.pdf](http://www.cise.ufl.edu/~sgchen/papers/iccdcs2004.pdf) - [Similar](#)

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### [\[PDF\]](#) SWORD: Self-propagating Worm Observation and Rapid Detection

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**source** and **destination** addresses and ports. SWORD coalesces the header information ...

**Multiple** attacks on a specific vulnerability, either from a **single** host or from ..... detect **worm** connections to exceed the **threshold** within a window. ..... Symposium on Performance Evaluation of **Computer** and Telecommunication ...

[ix.cs.uoregon.edu/~lijun/pubs/papers/lij06sword.pdf](http://ix.cs.uoregon.edu/~lijun/pubs/papers/lij06sword.pdf) - [Similar](#)

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### [\[PDF\]](#) On the Adaptive Real-Time Detection of Fast-Propagating Network Worms

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First, finding a **single threshold** rate that accommo- ... browser generating **multiple** concurrent connections to fetch embedded objects vs. an SSH client connecting to a server). ..... Connection information includes a **source** address, s, a **destination** address, d, ..... R. A Taxonomy of **Computer Worms**. In Proceedings ...

[dspace.mit.edu/bitstream/handle/1721.1/34875/MIT-CSAIL-TR-2006-074.pdf?sequence=1](http://dspace.mit.edu/bitstream/handle/1721.1/34875/MIT-CSAIL-TR-2006-074.pdf?sequence=1) - [Similar](#)

by J Jung - 2006 - Cited by 6 - Related articles

### [\[PDF\]](#) Surveillance Detection in High Bandwidth Environments

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spread of failed connections over **multiple destinations** ... collected during any large **worm** attack such as Code ..... every **single source** which produced connections to N or more unique **destinations** over a ... Since even a low detection **threshold** can drastically .... Portscans", Seventh ACM Conference on **Computer** ...

[cs.fit.edu/~pkc/id/related/robertson-discrex03.pdf](http://cs.fit.edu/~pkc/id/related/robertson-discrex03.pdf) - [Similar](#)

by S Robertson - 2003 - Cited by 44 - Related articles

[\[PDF\] Anomalous Payload-based Worm Detection and Signature Generation](#)

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distinct **source** and **destination** IPs for each suspicious content, in order to keep the ..... score is higher than some **threshold**, we treat this as possible **worm** propagation and .... Most current attack detection systems are constrained to a **single** ingress ... commonly matched as anomalous data among **multiple** sites. ...

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[\[PDF\] Operational Programme "Competitiveness" D3.1 "System Implementation"](#)

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A fundamental condition for the system to detect a **worm** is that the ... tiple **destinations**.

The **destinations threshold** used for triggering an alert is ... A **single destination** can be stored within the entry, but for more than one desti- ... CACHE MULTIPLE DST Substring has **multiple destinations** stored in extra ta- ...

www.ics.forth.gr/dcs/Activities/papers/earimp.pdf - Similar

[\[PDF\] Approach to Worm Detection, Early Warning Based on Local Victim ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

DSC (Destination-Source Correlation) based on **worm** behavior. The proposed algorithm can fast early warning, ... 2) SIMO (**single**-input **multiple**-output) behavior: if a **worm** ...

2008 International Conference on Computer Science and Software Engineering ... 9)

Threshold\_Ni: the **threshold** value of scan times of the ...

ftp://ftp.computer.org/press/outgoing/proceedings/csse08/data/3336e880.pdf - Similar

by T Liu

[\[PDF\] Effective Worm Detection for Various Scan Techniques](#)

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algorithm for **worm** detection using **multiple** parameters as indicators in Section VII. ... As an end host, a **single computer** can apply various strategies to detect and respond to **worm** attacks. .... mistypes a **destination** address, the **source** address might ... of new victims is greater than the adaptive **threshold** T ...

rio.eecs.umass.edu/mnlp/papers/jxiao-JCS-wormdetection.pdf - Similar

by J Xiao - 2006 - Cited by 3 - Related articles

[\[PDF\] The Limits of Global Scanning Worm Detectors in the Presence of ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

**computer** security, **computer worms**, scanning **worms**, **worm** ..... itored a **single** unused IP address over the course of 25 days, .... time to random **destinations**, then at time t the overall **worm** .... adjust its **worm** detection **threshold** even higher to prevent .... We could not find a good **source** of data from which to ...

www1.cs.columbia.edu/~angelos/worm05/worm30-richardson.pdf - Similar

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distinct **source** and **destination** IPs for each suspicious content, ..... score is higher than some **threshold**, we treat this as possible **worm** propagation and .... Most current attack detection systems are constrained to a **single** ingress .... signatures that may be used for filtering **worm** attacks at **multiple** sites. ...

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[\[PDF\] DNS-based Detection of Scanning Worms in an Enterprise Network](#)

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Oct 20, 2004 ... pose an algorithm based on the **Threshold** Random Walk ... lar cell or span **multiple** cells depending on the scanning ..... and **destination** IP address and **source** and

**destination** port number. ..... able to detect scanning **worm** propagaton in a **single** scan- .... A taxonomy of **computer worms**. In The First ...  
[www.isoc.org/isoc/conferences/ndss/05/proceedings/papers/whytednswormv2.pdf](http://www.isoc.org/isoc/conferences/ndss/05/proceedings/papers/whytednswormv2.pdf) - Similar  
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**Detecting Public Network Attacks Using Signatures and Fast Content ...**  
Dec 11, 2008 ... Network **worms** or viruses are a growing threat to the security of public and private ... said first monitoring comprises monitoring **multiple destinations**; ..... An IP header identifies both **source** and **destination** for the payload. ..... Thus when comparing against the **threshold** for **source** addresses, ...  
[www.freepatentsonline.com/y2008/0307524.html](http://www.freepatentsonline.com/y2008/0307524.html) - Similar  
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**Containment of Unknown and Polymorphic Fast Spreading Worms ...**  
Sep 11, 2008 ... A **computer**-readable media tangibly embodying a program of instructions ..... one may also need to have a maximum **threshold**, MAX TIMEOUT, for the waiting time. ... To achieve this, one can either change the **destination** IP address of the ..... To verify this, the **worm source** code was also instructed ...  
[www.freepatentsonline.com/y2008/0222729.html](http://www.freepatentsonline.com/y2008/0222729.html) - Similar  
More results from [www.freepatentsonline.com](http://www.freepatentsonline.com) »

**Symantec Security Response - Glossary - Symantec Corp.**  
This program drops the virus or **worm** onto the victim's **computer**. .... By using **multiple** methods and techniques, blended threats can rapidly spread ... Any files in the **source** folder are copied to the **destination** folder. ..... Administrators define **threshold** rules to determine how notifications are to be delivered. ...  
[www.symantec.com/norton/security\\_response/glossary.jsp](http://www.symantec.com/norton/security_response/glossary.jsp) - Cached - Similar

**[PDF] Data Reduction for the Scalable Automated Analysis of Distributed ...**  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
volving **multiple destination** ports (multi-vector) and con- sisting of less than 10 contacted ... connection filtering, N connections from a **single source** are recorded, and all subsequent ..... **threshold**. The coverage **threshold** defines the number of ..... Internet **worm** activity. FIRST Conference on **Computer** Security ...  
[www.eecs.umich.edu/~mibailey/publications/IMC-2005-Final.pdf](http://www.eecs.umich.edu/~mibailey/publications/IMC-2005-Final.pdf) - Similar  
by M Bailey - Cited by 14 - Related articles - All 17 versions

**[PDF] WORM vs. WORM: Preliminary Study of an Active Counter-Attack Mechanism**  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
Self-propagating **computer worms** have been terrorizing the ..... tem until a certain **threshold** of similar messages are seen on the network before signaling a **worm** presence. A ver- ... **worm** to others. The **source** and **destination** port number of ..... **multiple** vectors in a **single** payload, in order to bridge net- ...  
[www.icir.org/vern/worm04/castaneda.pdf](http://www.icir.org/vern/worm04/castaneda.pdf) - Similar  
by F Castaneda - 2004 - Cited by 46 - Related articles

**[PDF] Evaluation of collaborative worm containment on the DETER testbed**  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
The data **source** for the background traf- ... components: **worm** detection based on unique **destination** ... emulation experiments are as follows: sending rate **threshold** .... network firewalls facilitates the detection of **single** random scanners. .... ceedings of the 10th ACM conference on **Computer** and com- ...  
[www.usenix.org/event/deter07/tech/full\\_papers/ll\\_ll.pdf](http://www.usenix.org/event/deter07/tech/full_papers/ll_ll.pdf) - Similar  
by L Li - Related articles - All 4 versions

**[PDF] Boundary detection and containment of local worm infections**  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
May 15, 2007 ... When a **threshold** of similar incompletely connec- .... based on those marks using a **single** rule. This keeps .... srcip, dstip: **Source** and **destination** IP addresses . ... **Multiple** matching: When duplicate unreachable .... ume 4219 of Lecture Notes in

**Computer** Science, pages 165–184. Springer, 2006. ...

[www.usenix.org/event/sruti07/tech/full\\_papers/zamboni/zamboni.pdf](http://www.usenix.org/event/sruti07/tech/full_papers/zamboni/zamboni.pdf) - Similar

by D Zamboni - 2007 - Related articles - All 5 versions

More results from [www.usenix.org](http://www.usenix.org) »

**Handling of DDoS attacks from NAT or proxy devices - US 20090144806**

Jun 4, 2009 ... After taking control of a **computer**, a **worm** often uses the ... To a system on the Internet, the NAT device itself appears to be the **source/destination** for this traffic. ...

This **threshold** may be determined, for example, by the number of .... A proxy server may pipeline HTTP messages from **multiple** ...

[www.patents.com/Handling-DDoS-attacks-NAT-or-proxy-devices/US20090144806/en-US/](http://www.patents.com/Handling-DDoS-attacks-NAT-or-proxy-devices/US20090144806/en-US/) - Similar

**[PDF] PWC: A Proactive Worm Containment Solution for Enterprise Networks**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

**Computer worms** (i.e., malicious self-propagating code) are ... slower **worms**. In this paper, we will discuss **single** resolution .... handle **multiple** simultaneous smoking signs raised by different .... Smoking sign **threshold** (unique **destinations**/sec) .... of bogus smoking signs spoofing internal **source** address. ...

[ist.psu.edu/s2/paper/PWC-SECURECOMM07-CR.pdf](http://ist.psu.edu/s2/paper/PWC-SECURECOMM07-CR.pdf) - Similar

by YC Jhi - Cited by 1 - Related articles

**Automated detection and containment of worms and viruses into ...**

**Computer worms** rely on active methods of infecting host .... autonomy, dynamic coverage, anomaly detection, **multiple** ... coordination takes place, which means there is no **single** ... **threshold**. The most significant parameters used in our ... **destination-source** infection patterns that can be useful to ...

[inderscience.metapress.com/index/A6128KM65285R167.pdf](http://inderscience.metapress.com/index/A6128KM65285R167.pdf) - Similar

by F Palmieri - 2007 - Related articles - All 5 versions

**[PDF] The Cactus Worm: Dynamic Resource Discovery and Allocation in a ...**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

by allowing, in certain circumstances, the coupling of **multiple** supercomputers to perform .... (**Source**). GridFTP Server. (**Destination**). Cactus Application ... **Worm** thorns. Resource. Selector. Migrator. **Computer**. Storage ... The length of a time quantum, degradation **threshold**, and number of consecutive violations ...

[www.globus.org/alliance/publications/papers/ijsa-cactus.pdf](http://www.globus.org/alliance/publications/papers/ijsa-cactus.pdf) - Similar

by G Allen - 2001 - Cited by 110 - Related articles - All 46 versions

**[PDF] Hit-List Worm Detection and Bot Identification in Large Networks ...**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

In a protocol graph, a vertex represents a **single** IP ad- .... SMTP: SMTP consists of TCP traffic where the **source** or **destination** port .... false alarm rate for any given detection **threshold** (Section 4.2). In this section, ..... a **worm** would be to consider graphs that involve **multiple** protocols at once, ...

[www.cert.org/netsa/publications/raid2007-collins-hit-worm-detect-bot-indent-sep07.pdf](http://www.cert.org/netsa/publications/raid2007-collins-hit-worm-detect-bot-indent-sep07.pdf) - Similar

by MP Collins - 2007 - Cited by 7 - Related articles

**[PPT] Data Mining in Cyber Threat Analysis**

File Format: Microsoft Powerpoint - [View as HTML](#)

For the same **source (destination)** IP address, number of unique **destination** ... Detected a distributed windows networking scan from **multiple source** locations ... Detected several instances of slapper **worm** that were not identified by SNORT ... the scanning **threshold**) which results in the large memory requirements ...

[www.cs.umn.edu/research/MINDS/talks/asc2002.ppt](http://www.cs.umn.edu/research/MINDS/talks/asc2002.ppt) - Similar

**[PDF] Predicting the Presence of Internet Worms using Novelty Detection**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

**destination**. This information is exchanged between the networks that form the .... A

**threshold** value is specified from the novelty output of .... An extension of this work would be to correlate the novelty values from **multiple** routers, to be ... The Evolution of Viruses and **Worms**. Statistical Methods in **Computer** ...  
arxiv.org/pdf/0705.1288 - Similar  
by E Marais - Related articles - All 4 versions

[PDF] [A Reputation-based System for the Quarantine of Random Scanning Worms](#)  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
connections increases above a pre-set **threshold**, the cell is considered .... towards the reputation of an attacker, but certainly more than a **single** report .... by the **worm** and the last time an attack reached its intended **destination**. .... R. A Taxonomy of **Computer Worms**. Proceedings of the 2003 ACM Workshop on ...  
www.cs.rpi.edu/research/pdf/05-01.pdf - Similar  
by SE Coull - Related articles

[PDF] [SweetBait: Zero-Hour Worm Detection and Containment Using Honeypots](#)  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
SweetBait is comprised of **multiple** components with distinct roles, which can be .... a configurable **threshold**, the sensors will be instructed to filter the offending ... **source** and **destination** IPs information. As a **single** GCC obviously is susceptible .... less whether they are the result of a **computer worm**, ...  
www.cs.vu.nl/~herberth/papers/sweetbait-ir-cs-015.pdf - Similar  
by G Portokalidis - Cited by 5 - Related articles - All 5 versions

[PDF] [Characterization of Network-Wide Anomalies in Traffic Flows](#)  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
May 19, 2004 ... anomalies (values above the **threshold** represent anomaly detection). The periodicity in the original .... a **single destination** IP, with no domain **source** IP. Can involve **multiple** ... tion of **destination** IP and port. Can involve **multiple** OD flows and typi- .... A Taxonomy of **Computer Worms**. In ACM ...  
www.cs.bu.edu/techreports/pdf/2004-020-traffic-flow-anomalies.pdf - Similar  
by A Lakhina - Cited by 104 - Related articles - All 19 versions

[PPT] [Network Worms: Attacks and Defenses](#)  
File Format: Microsoft Powerpoint  
Love Bug **worm**: \$8.75 billion. Statistics: **Computer** Economics Inc., Carlsbad, California .... Used **multiple** vulnerabilities, propagate to "nearby" sys .... Hash : based on **Source** (or **Destination**); Sample : keep only a sample of the ... bitmaps to tell if number of distinct addresses per hash crosses **threshold** ...  
crypto.stanford.edu/cs155old/cs155-spring06/16-worms.ppt - Similar

[PDF] [Advanced Polymorphic Worms: Evading IDS by Blending in with Normal ...](#)  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
Mar 27, 2004 ... Normal traffic can provide **worms** with a very good **source** of infor .... that selects an attack vector, generates a set of **destinations**, .... In our example, we presume the **worm** uses a **single** attack vector, an ex .... There has been a number of documented studies that investigated **computer worms** and ...  
www.packetstormsecurity.org/papers/IDS/nids/Advanced-Polymorphic-Worms.pdf - Similar  
by O Kolesnikov - Cited by 45 - Related articles - All 42 versions

**Morris Worm**  
The term **computer** virus was first used in a formal way by Fred Cohen at USC. .... Additionally, a **threshold** could be included to check for repeated password ... version of the **worm**, a VAX version, and the **source** code for the vector program. .... The way hosts were added to this list implies that a **single worm** might ...  
wiretap.area.com/Gopher/Library/Techdoc/Virus/Inetvir.823 - Cached - Similar

[PDF] [Mining Anomalies Using Traffic Feature Distributions](#)  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
anomalies that span **multiple** traffic features. Finally, we tackle the anomaly classification

problem ... found that IP address distributions change during **worm** outbreaks. ... Traffic from **single source** to many **destinations**, e.g., ..... that setting the volume **threshold** low enough to detect the majority. Network ...  
[www.sigcomm.org/sigcomm2005/paper-LakCro.pdf](http://www.sigcomm.org/sigcomm2005/paper-LakCro.pdf) - Similar  
by A Lakhina - Cited by 212 - Related articles - All 23 versions

[ps] [The EarlyBird System for Real-time Detection of Unknown Worms](#)  
File Format: Adobe PostScript - [View as HTML](#)  
or **source-destination** pairs corresponding to signatures that ac- count for high traffic volumes identified ... **multiple** links and the exploit could be fragmented differently ... (**threshold**) number of times, then we instantiate counters to ..... warning for internet **worms**," Department of **Computer** Science, Univ. of ...  
[www.cse.ucsd.edu/Dienst/Repository/2.0/Body/ncstrl.ucsd\\_cse/CS2003-0761/postscript](http://www.cse.ucsd.edu/Dienst/Repository/2.0/Body/ncstrl.ucsd_cse/CS2003-0761/postscript) - Similar  
by S Singh - 2003 - Cited by 99 - Related articles

[Autograph: Toward Automated, Distributed Worm Signature Detection](#)  
In Section 3, we describe the detailed workings of a **single** Autograph monitor: its .... Autograph stores the **source** and **destination** addresses of each inbound ..... a new **worm** after the **worm's** release, and demonstrate that operating **multiple**, .... Note that for a port scanner detection **threshold**  $s = 1$  , the shortest ...  
[www.lib.unb.ca/engineering/usenix/04security/tech/full\\_papers/kim/kim\\_html/autograph-html.html](http://www.lib.unb.ca/engineering/usenix/04security/tech/full_papers/kim/kim_html/autograph-html.html) - Cached - Similar  
by HA Kim - Cited by 367 - Related articles - All 50 versions

[\(WO/2008/002801\) DETECTION OF FREQUENT AND DISPERSED INVARIANTS](#)  
A **worm** can be described as a destructive program that automatically ..... The **Source** and **Destination** IP Hash values are formed by scrambling the bits and ... or equal to a programmable **threshold** the **source/destination** scaling factors are .... be practiced with other **computer** system configurations, including **single**- ...  
[www.wipo.int/pctdb/en/wo.jsp?wo=2008002801&IA=WO2008002801&DISPLAY=DESC](http://www.wipo.int/pctdb/en/wo.jsp?wo=2008002801&IA=WO2008002801&DISPLAY=DESC) - Cached - Similar

[PDF] [Automated Worm Fingerprinting](#)  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
May 8, 2009 ... To maintain a count of unique **source** and **destination** ... easy to envision **worms** for which the invariant content is a string smaller than a **single** ... uses **multiple** bitmaps each mapped to progressively smaller and smaller portions of ... By using a lower dispersion **threshold** one can respond to a **worm** ...  
[www.csd.uoc.gr/~hy558/reports/report\\_worm\\_fingerprinting.pdf](http://www.csd.uoc.gr/~hy558/reports/report_worm_fingerprinting.pdf) - Similar

[PDF] [WormTerminator: An Effective Containment of Unknown and ...](#)  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
**destination** or drop the **worm** traffic and raise an alarm to the user. .... have a maximum **threshold**, MAX TIMEOUT, for the waiting .... put **multiple**, and possibly multithreaded, processor cores onto a **single** processor chip so as to fully utilize the avail- .... also instruct the **worm source** code directly and get very ...  
[cs.gmu.edu/~xwangc/Publications/ANCS2006-WormTerminator.pdf](http://cs.gmu.edu/~xwangc/Publications/ANCS2006-WormTerminator.pdf) - Similar  
by S Chen - 2006 - Cited by 2 - Related articles

[ps] [Virus Throttling for Instant Messaging](#)  
File Format: Adobe PostScript - [View as HTML](#)  
**Computer worms** spread over networks, the particular ... called the epidemic **threshold**. In a fully connected net- ... It is assumed that the infection takes place with a **single**. message. .... lay queue, their **destinations** added to the working set ... a message is sent to **multiple** recipients simultaneously. ...  
[www.hpl.hp.com/techreports/2004/HPL-2004-81.ps](http://www.hpl.hp.com/techreports/2004/HPL-2004-81.ps) - Similar  
by MM Williamson - Cited by 19 - Related articles - All 6 versions

[PDF] [On the Detection and Origin Identification of Mobile Worms](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

consisting of the start, duration, **source**, and **destination** .... responding to the same transaction into a **single** semantic .... the long-term average passes a **threshold**, the detector raises .... therefore **multiple** reverse paths lead to that node. (b) Un- like **worms**, non-malicious node contacts do not tend to form ...

[www.cs.jhu.edu/~sarat/WORM07.pdf](http://www.cs.jhu.edu/~sarat/WORM07.pdf) - Similar

by S Sarat - Cited by 2 - Related articles - All 4 versions

[\[PDF\]](#) **Internet Intrusions: Global Characteristics and Prevalence**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

Mar 19, 2002 ... distribution of **source** IP addresses of the non-**worm** intrusions ...

Distribution: Sources and **destinations** of intrusions from ..... Horizontal Scan - is a scan from a **single source** of sev- ... **threshold** (1 hour) and the minimum **threshold** for the .....

In Journal of **Computer** Security, 2002. ...

[pages.cs.wisc.edu/~pb/dishield\\_paper.pdf](http://pages.cs.wisc.edu/~pb/dishield_paper.pdf) - Similar

by V Yegneswaran - Cited by 146 - Related articles - All 29 versions

[\[PDF\]](#) **Worm Detection at Network Endpoints Using Information-Theoretic ...**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

anomaly detection scheme that detects **computer worms** by ..... **Source** and **destination** ports' Kullback-Leibler divergences at infected endpoints. ... fected with a **single** infection of each **worm** are outlined in Fig. 1. From Fig. .... in Section IV-A) is the **threshold** number of sessions below which **worm** detection is ...

[wisnet.niit.edu.pk/publications/2008/Khayam\\_ICC08.pdf](http://wisnet.niit.edu.pk/publications/2008/Khayam_ICC08.pdf) - Similar

by SA Khayam - 2008 - Related articles

[\[PDF\]](#) **Reducing Cache Invalidation Overheads in Wormhole Routed DSMs ...**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

Department of **Computer** and Information Science, The Ohio State University, Columbus, OH 43210-1277 ..... from **multiple destinations** with a **single** message. E-cube. Turn-model **source destination** ..... When the **threshold** is reached, more than one i-reserve **worms** are used to cover **destinations** in the columns. ...

[ftp://ftp.cse.ohio-state.edu/pub/communication/papers/icpp96-dsm-multidest.pdf](http://ftp.cse.ohio-state.edu/pub/communication/papers/icpp96-dsm-multidest.pdf) - Similar

by D Dai - Cited by 32 - Related articles - All 19 versions

**Entropy Based Evaluation of Communication Predictability in ...**

The author is with the Department of Electrical and **Computer** ... forms of networking such as packet switching and **worm**- ..... accuracy **threshold**, below which prediction should not be attempted. ... of the **single-source destinations**. The events are se- .... analysis of the benefit of tracking **multiple** successors may ...

[ietisy.oxfordjournals.org/cgi/reprint/E89-D/2/469.pdf](http://ietisy.oxfordjournals.org/cgi/reprint/E89-D/2/469.pdf) - Similar

by AK JONES - Related articles - All 7 versions

[\[PDF\]](#) **On Scalable Attack Detection in the Network**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

Jan 22, 2004 ... per **source** to count all the ports and **destinations** each **source** talks to. ..... the same, except that the **threshold** for detection has to be tuned ..... the presence of DoS attacks which are **single** or **multiple source** ..... taxonomy of **computer worms**," in Proceedings of the ACM Workshop of ...

[www.cs.purdue.edu/homes/kompella/publications/tonAttacks.pdf](http://www.cs.purdue.edu/homes/kompella/publications/tonAttacks.pdf) - Similar

by RR Kompella - Cited by 53 - Related articles - All 24 versions

[\[PDF\]](#) **Scan Detection: A Data Mining Approach**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

definition of a failed connection and how the **threshold** .... tination port 80) from a **computer** with a **source** IP S. ... **Source** port or 0 for **multiple source** ports dstport.

**Destination** port ... **worm**: the host is engaged in its usual P2P activity on ..... more than 1 **destination** IP on a **single destination** port. 'TP' ...

[www.siam.org/proceedings/datamining/2006/dm06\\_011simong.pdf](http://www.siam.org/proceedings/datamining/2006/dm06_011simong.pdf) - Similar

by GJ Simon - Cited by 12 - Related articles - All 16 versions

[PDF] WormShield: Fast Worm Signature Generation with Distributed ...File Format: PDF/Adobe Acrobat - [View as HTML](#)

**worms** with **multiple** disjoint string tokens that are shorter than the **single** substrings used in ..... to that of generating **worm** signatures at a **single** monitor in. Earlybird [32]. .... t is a **threshold** for both **source** and **destination** addresses. ..... Taxonomy of **Computer Worms**," Proc. 2003 ACM Workshop Rapid ...

[www.computer.org/portal/cms\\_docs\\_transactions/transactions/tdsc/featured\\_article/q0088.pdf](http://www.computer.org/portal/cms_docs_transactions/transactions/tdsc/featured_article/q0088.pdf) - Similar

[Paper] Mining Frequency Content of Network Traffic for Intrusion ...

The last type may be used in detecting traffic patterns when a **worm** or virus ... each connection Compare with a **threshold** value Report attacks Local Frequency ... A pair of **source** and **destination** IP addresses A **single** protocol or a set of ... is not independent and is possibly originated from one **source computer**, ...

[www.actapress.com/PDFViewer.aspx?paperId=20400](http://www.actapress.com/PDFViewer.aspx?paperId=20400) - Similar  
by M Zhou - All 2 versions

Tools

Best for: **worm** experiment generation and visualization ... used to generate background traffic in a network as the **multiple** clients keep contacting .... clusters whose traffic is greater than a **threshold** (either in terms of packet number or ... **destination IP**, **source port**, **destination port** or protocol) and also in ...  
[www.isi.edu/deter/tools.html](http://www.isi.edu/deter/tools.html) - Cached - Similar

CPM Dictionary: T | Contingency Planning & Management

Task Force: Combination of **single** resources assembled for a particular tactical need, ....

**Threshold**: Number of events needed to satisfy certain criteria; ... includes identities and locations of the **source(s)** and **destination(s)**, ... that stimulates the activity of the payload, such as a virus or **worm**; ...

[www.contingencyplanning.com/content.aspx?aid=57621](http://www.contingencyplanning.com/content.aspx?aid=57621) - Cached - Similar

[PDF] Autograph: Toward Automated, Distributed **Worm** Signature DetectionFile Format: PDF/Adobe Acrobat - [View as HTML](#)

in lost productivity owing to interruptions in **computer** and ..... Autograph stores the **source** and **destination** addresses of ... port, the suspicious flow pool contains more than a **threshold** number of flows θ. .... 5.1 **Single** vs. **Multiple** Monitors. Let us now measure the time required for an Autograph mon- ...

[www.cs.ucl.ac.uk/staff/B.Karp/autograph-usenixsec2004.pdf](http://www.cs.ucl.ac.uk/staff/B.Karp/autograph-usenixsec2004.pdf) - Similar  
by HA Kim - Cited by 397 - Related articles - All 50 versions

[PDF] PROACTIVE WORM PREVENTION BASED ON P2P NETWORKSFile Format: PDF/Adobe Acrobat - [View as HTML](#)

IJCSNS International Journal of **Computer** Science and Network Security, ... within a local network there will soon be **multiple** ones. .... to use ICMP "Destination Unreachable" messages collected ... **threshold** to judge whether a **worm** is propagating or not. .... proposed P2P overlay network, we developed a **single** ...

[paper.ijcsns.org/07\\_book/200603/200603C11.pdf](http://paper.ijcsns.org/07_book/200603/200603C11.pdf) - Similar  
by KAIGUI WU - 2006 - Cited by 1 - Related articles - All 4 versions

[PDF] Anomaly Detection using similarity in PacketsFile Format: PDF/Adobe Acrobat - [View as HTML](#)

Point to Multipoint Traffic from **single source** to many des- ..... Counts over a **threshold** provoke GrIDS to report a suspected **worm**. .... to check that the same content propagate not just between **multiple source-destination** pairs, but .... [17] Automatic Extraction of **Computer** Virus Signatures :Jeffrey O. Kephart ...

[www.cse.iitb.ac.in/~alodha/SeminarReport.pdf](http://www.cse.iitb.ac.in/~alodha/SeminarReport.pdf) - Similar  
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[doc] CYBER-CRIMES: A PRACTICAL APPROACH TO THE APPLICATION OF

## FEDERAL ...

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The attacker is also able to launch attacks against **multiple** targets using the "mdos" ...  
Using TFN, a **single** attacker can launch an attack from dozens of computers on which ....  
One of the critiques of this subsection is the \$5000 damage **threshold** ..... He  
programmed the **worm** to multiply only once on a **computer**, ...  
[www.sinrodlaw.com/cybercrime.doc](http://www.sinrodlaw.com/cybercrime.doc) - [Similar](#)  
by EJ Sinrod - 2000 - Cited by 7 - Related articles

## [PDF] NetFlow

File Format: PDF/Adobe Acrobat - [View as HTML](#)

**Source and destination** IP address. – Next hop router's IP address .... **Computer worms**  
cost European ISPs 123 Million € (The Register,.. May 2004) ...  
[www.ist-lobster.org/publications/deliverables/D4.5a-flow\\_level.pdf](http://www.ist-lobster.org/publications/deliverables/D4.5a-flow_level.pdf) - [Similar](#)

## [PDF] Detection of Slow Malicious Worms using Multi-sensor Data Fusion

File Format: PDF/Adobe Acrobat - [View as HTML](#)

outgoing connections to unique **destination** addresses and ports exceed a **threshold** and  
share detection information with each other to improve false detection rates. .... a **single**  
slow **worm** detection window (Fig. 6). At the end of a **worm** .... modified blaster **worm**  
**source** code [11]. To emulate **multiple** malicious ...  
[www.scs.carleton.ca/~kranakis/Papers/cisda09.pdf](http://www.scs.carleton.ca/~kranakis/Papers/cisda09.pdf) - [Similar](#)

## LITMUS: Live Intrusion Tracking via Multiple Unsupervised STANNOs

Although this time tested approach is the backbone of current **computer** security systems,  
... Figure 3 illustrates a **single** instantiation of a Windows-based LITMUS program, .... the  
middle, **source** IPs, and the rightmost, **destination** IPs. ... In Figure 6, for instance, LITMUS  
reveals the Nimda **worm** attempting to gain ...

[www.imagination-engines.com/litmus.htm](http://www.imagination-engines.com/litmus.htm) - [Cached](#) - [Similar](#)

## 19th Annual Computer Security Applications Conference (ACSAC ...)

Typical IDSs with **multiple** models sum the output of the models and compare to ... They  
claim that the resulting system was always better than a **threshold**-based system. ... The  
idea is to throttle the load based on new email **destinations**, ... that nothing much has  
changed in the past 15 years since the Morris **Worm**, ...

[www.ieee-security.org/Cipher/ConfReports/2004/CR2004-ACSAC.html](http://www.ieee-security.org/Cipher/ConfReports/2004/CR2004-ACSAC.html) - [Cached](#) - [Similar](#)

## [PDF] Understanding the Various Types of Denial of Service Attack By ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

**single** product solution, but rather a holistic approach is required to look ... As early as  
November 3, 1988, Robert Morris Jr. released a **worm** which later ... In this event, often the  
**source** is a legitimate IP. By spawning **multiple** ... **threshold** to an acceptable number of  
packets to be processed by the **computer**. ...

[www.cybersecurity.org.my/data/content\\_files/13/72.pdf?diff=1176418012](http://www.cybersecurity.org.my/data/content_files/13/72.pdf?diff=1176418012) - [Similar](#)

## [PDF] A Fast Worm Scan Detection Tool for VPN Congestion Avoidance

File Format: PDF/Adobe Acrobat - [View as HTML](#)

is modified with different **threshold** values and the importance of failed connection-  
attempts is ... of a **worm** an infected **computer** needs to scan many others ... entropy of the  
**source** and **destination** IP addresses and port .... **Multiple** targets are typical for a **worm**,  
while a **single** target could be a denial of ser- ...

[www.tik.ee.ethz.ch/~ddosvax/publications/papers/dimva06scan.pdf](http://www.tik.ee.ethz.ch/~ddosvax/publications/papers/dimva06scan.pdf) - [Similar](#)  
by A Wagner - Cited by 1 - Related articles - All 14 versions

## [PPT] ECE 683 Computer Network Design & Analysis

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TCP connection **threshold**; Use **worm** signature for outbound traffic ... **Single** logical point  
of failure, potential for congestion. No security ... Attempt **multiple**, redundant routes from  
the **source** to the **destination**. ...

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rence across all the nodes in a network are above a certain **threshold** ...

**source/destination** IP addresses ranked by traffic volume to incipient **worm** ... using traditional **single** node mechanisms since the signal is usually too ... and **multiple** times better than the sampling scheme (e.g., Cisco sampled NetFlow). ...

[www.cc.gatech.edu/~qzhao/CV\\_qzhao.pdf](http://www.cc.gatech.edu/~qzhao/CV_qzhao.pdf) - Similar

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On the Adaptive Real-Time Detection of Fast-Propagating Network **Worms** ... Finding a **single threshold** rate that accommodates all (or almost all) benign ... a Web browser generating **multiple** concurrent connections to fetch embedded ... on the rate at which the infected hosts initiate connections to new **destinations** ...

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entry in the prevalence table, a list of unique **source-destination** IP address .... duced by subgraphs from **multiple** executables, the analyzer compared the list ..... **worm**, which is only 376 bytes long and fits into a **single** UDP packet, has a CFG .... In 18th Annual **Computer** Security Applications Conference (AC- ...

[www.auto.tuwien.ac.at/~chris/research/doc/raid05\\_polyworm.pdf](http://www.auto.tuwien.ac.at/~chris/research/doc/raid05_polyworm.pdf) - Similar  
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not be easily diagnosed from a **single** point in the network. .... ample may be to include hashed **source** and **destination** IP ... security data from **multiple** sources is likely to be of great .... knowledge of **computer worms** and self-propagating mal- .... tal number of such records exceeds a given **threshold**. (The ...

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observed when a **worm** or virus is spreading itself from an infected **computer** to other computers. .... used in detecting attacks originated from a **single source** IP ... sent to the **destination** PC node through the hub (located at the ... below the **threshold** value 3.0, both connecting IPs are marked as suspicious. ....

[www.iisctl.org/Journal/CV\\$sci/pdfs/P602668.pdf](http://www.iisctl.org/Journal/CV$sci/pdfs/P602668.pdf) - Similar  
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[SANS Institute - Intrusion Detection FAQ: Can you explain traffic ...](#)

the most trusted **source** for **computer** security training, certification and research .... and a vertical scan as a **single** IP being scanned for **multiple** ports. ... would reduce the space down to the **source** and **destination** IP of the events. ... The anomaly **threshold** could be lowered when filtering was used since the ...

[www.sans.org/resources/idsfaq/anomaly\\_detection.php](http://www.sans.org/resources/idsfaq/anomaly_detection.php) - Cached - Similar

[DoS and DDoS Attack Guide](#)

Mar 3, 2008 ... All requests are coming in from a “**single**” **source** – you .... **Computer** Crime Research Center's Network Security: DoS vs DDoS Attacks ... Can the **destination** IP Address that is being attacked be stopped? ..... **Worm** activity, often the prelude to both spam and denial of service (DoS) attacks, ...

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[Effective \*\*worm\*\* detection for various scan techniques](#)

**multiple** parameters as indicators to detect **worm** events. ... As an end host, a **single** **computer** can apply various strategies to detect and re- spond to **worm** attacks. .... We

combine address segments using a distance **threshold**. .... a legitimate user mistypes a **destination** address, the **source** address might be marked ...  
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observed when a **worm** or virus is spreading itself from an in- fected **computer** to other computers. .... used in detecting attacks originated from a **single source** IP tar- ... dependent and is possibly generated from one **source computer**. .... **threshold** value 3.0, both connecting IPs are marked as suspi- ...  
[www.cs.ucf.edu/csdept/faculty/lang/pubs/mzhousci2003final.pdf](http://www.cs.ucf.edu/csdept/faculty/lang/pubs/mzhousci2003final.pdf) - [Similar](#)  
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For example, when aggregating **multiple** access-layer switches into a ... In this context, faulty software includes **computer worms** and viruses, ... Packet loss—The measure of lost packets between any given **source** and **destination**. ... packets increases beyond a specific **threshold**, a jitter buffer underrun occurs. ...  
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computer worm single source multiple destinations threshold

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